
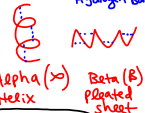




The four levels of Protein Structure		
Level	Cause	Image
Primary (1°)	Covalent Bonds (peptide bonds) between neighbor AA's in a single P	
Secondary (2°)	Hydrogen Bonds between amino and carboxyl groups on non-neighbor AA's in a single P	<p>Results in 2 P shapes</p> <p>... = Hydrogen bond</p>  <p>Alpha (α) Helix Beta (β) Pleated sheet</p>
Tertiary (3°)	Ionic, covalent, or Hydrogen bonds between R groups on Non-neighbor AA's in a single P	
Quaternary (4°)	Ionic, covalent, or Hydrogen bonds between R groups of AA's on different P's → multiple P's folded around each other to create the full protein (Final shape → Function)	 <p>(Different colors represent different P's)</p>

Oct 3-11:48 AM